

**CURRICULUM VITAE**  
**SCOTT R. SPONHEIM PH.D.**

**PROFESSIONAL ADDRESS**

116B  
VA Medical Center  
One Veterans Drive  
Minneapolis, MN 55417

Telephone Number: (612) 467-3916  
Fax Number: (612) 727-5964  
E-mail Address: [sponh001@umn.edu](mailto:sponh001@umn.edu)

**IDENTIFYING INFORMATION**

**Education**

Degree	Institution	Date Degree Granted
B.A.	Concordia College, Moorhead, MN Mathematics, Physics, Philosophy	1985
Ph.D.	University of Minnesota, Twin Cities Major Program: Clinical Psychology Minor Program: Psychophysiology and Psychometrics Advisor: William G. Iacono Ph.D.	1993
Internship	Minneapolis VA Medical Center	1992-1993

**Licensure**

Licensed Psychologist, Minnesota, #LP3409, 1995 to present.

**Academic Appointments**

University of Minnesota, Twin Cities (1996 – present)	
Adjunct Associate Professor, Department of Psychology	2009 to present
Associate Professor, Department of Psychiatry	2007 to present
Graduate School Faculty	1997 to present
Adjunct Assistant Professor, Department of Psychology	1997 to 2009
Assistant Professor, Department of Psychiatry	1997 to 2007
Clinical Assistant Professor, Department of Psychology	1996 to 1997

## **Clinical/Hospital Appointments**

1. Acting Director, Family Psychoeducation for Veterans with Serious Mental Illness. Minneapolis VA Medical Center. 2006 to 2007.
2. Faculty, Brain Sciences Center, Minneapolis VA Medical Center. 2002 to present
3. Coordinator, PTSD Inpatient Stabilization Program at the Veterans Affairs Medical Center, Minneapolis, Minnesota. 1994 to 1995.
4. Staff Psychologist, Minneapolis Veterans Affairs Health Care System. 1993 to present.

## **Consulting Positions**

1. Member, National Advisory Group for New Programs in Serious Mental Illness (SMI) Evaluation, 2006. Department of Veterans Affairs. Mary Jansen, Ph.D., Chair.
2. Forensic Examiner, United States Attorneys' Office. Minneapolis, Minnesota. September 1997 to 1999. Cases: Schroeder v. U.S., DaParma v. Rubin, Clark v. U.S., Costilla v. U.S.

## **Current Membership in Professional Organizations**

1. Human Brain Mapping, 2008 to present.
2. Society of Biological Psychiatry, 2005 to present.
3. American Association for the Advancement of Science, 2004 to present.
4. Society for Research in Psychopathology, 2002 to present.
5. Society for a Science of Clinical Psychology, 2001 to present.
6. Association for Psychological Science (formerly American Psychological Society), 1995 to present.
7. American Psychological Association (Divisions 12 and 18), 1990 to present.
8. Society for Psychophysiological Research, 1989 to present.

## **HONORS AND AWARDS**

### **External**

1. Fellow, Association for Psychological Science (APS), 2012
2. Outstanding Researcher of the Year, American Psychological Association (APA), Division 18, VA Section, 2002.

### **Internal**

1. Mental and Behavioral Health Early Investigator of the Year, Veterans Integrated Service Network 13, Department of Veterans Affairs, October, 2000.

## **RESEARCH AND SCHOLARSHIP**

### **External Grants**

#### *Current*

1. Merit Review Grant, Department of Veterans Affairs, "Essential Features of Neural Damage in Mild Traumatic Brain Injury", total direct cost \$1,100,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. July 2012 to June 2016.

2. Merit Review Grant, Department of Veterans Affairs, "Meditation Interventions for Treatment of PTSD in Veterans", total direct cost \$961,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, K. O. Lim, Principal Investigator. October 2011 to September 2013.
3. Cooperative Studies Program, Department of Veterans Affairs, "Million Veteran Program: A Partnership with Veterans" (G002), total direct cost \$700,000 (salary unpaid). **S.R. Sponheim, Site Principal Investigator**, October 2010 to September 2015.
4. Cooperative Studies Program, Department of Veterans Affairs, "Genome-Wide Association Study of Functioning in Serious and Persistent Mental Illness" (CSP 572), total direct cost \$400,000 (salary unpaid). **S.R. Sponheim, Site Principal Investigator**, April 2010 to March 2013.
5. Merit Review Grant, Department of Veterans Affairs, "Genetic and Time-Frequency Aspects of Neural Phenotypes in Schizophrenia", total direct cost \$650,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. April 2010 to March 2014.
6. Merit Review Grant, Rehabilitation Research and Development, Department of Veterans Affairs, "Remediation of Working Memory in Schizophrenia", total direct cost \$761,900 (salary unpaid). **S.R. Sponheim, Co-Principal Investigator**, Tasha Nienow, Co-Principal Investigator. October 2009 to September 2013.

*Past*

1. Career Development Enhancement Award, Department of Veterans Affairs, "Specific Genetic Contributions to Neural Phenotypes in Schizophrenia", 12-month sabbatical with 50% salary support to **S.R. Sponheim**, February 2011 to January 2012.
2. Center Supplemental Grant, Department of Veterans Affairs, "Genomics in Recovery from Serious and Persistent Mental Illness", total direct cost \$294,120 (salary unpaid). **S.R. Sponheim, Principal Investigator**. March 2008 to September 2009.
3. Department of Defense (DoD), "The Effects of Explosive Blast As Compared to Post-traumatic Stress Disorder on Brain Function and Structure", total direct cost \$1,352,107 (salary unpaid). **S.R. Sponheim, Principal Investigator**. April 2008 to March 2012.
4. R21, National Institutes of Mental Health, "Imaging the Impact of Glutamate Liability Genes in Schizophrenia", total direct cost \$275,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, A.W. MacDonald III, Principal Investigator. February 2008 to November 2009.
5. Treatment Program Funding for Veterans Integrated Service Network (VISN) 23, Department of Veterans Affairs, "Implementing Evidence-Based Family Psychoeducation for Veterans with Serious Mental Illness", total direct cost \$715,239 (salary unpaid). **S.R. Sponheim, Principal Author**. July 2006 to June 2009.
6. Treatment Program Funding for Veterans Integrated Service Network (VISN) 23, Department of Veterans Affairs, "Implementing Evidence-Based Specialized Treatment Program for Veterans with Serious Mental Illness: Illness Management and Recovery", total direct cost \$685,356 (salary unpaid). **S.R. Sponheim, Co-Principal Author**. July 2006 to June 2009.

7. Treatment Program Funding for Veterans Integrated Service Network (VISN) 23, Department of Veterans Affairs, “New Evidence-Based Specialized Treatment Program for Veterans with Serious Mental Illness”, total direct cost \$1,630,824 (salary unpaid). **S.R. Sponheim, Committee Chair and Co-Principal Author**. June 2005 to May 2008.
8. Merit Review Grant, Department of Veterans Affairs, “Neural Phenotype-Genotype Associations in Schizophrenia”, total direct cost \$799,400 (salary unpaid). **S.R. Sponheim, Principal Investigator**. April 2005 to March 2010.
9. R24, National Institutes of Mental Health, “Aberrant Cortical Dynamics in Schizophrenia”, total direct cost \$726,856 (20% salary paid). **S.R. Sponheim, Principal Investigator**. July 2004 to June 2007.
10. Project Grant, Mental Illness and Neuroscience Discovery (MIND) Institute, “Dynamic Studies of Sequential Processing in Schizophrenia Using MEG”, total direct cost \$400,000 (salary unpaid), **S.R. Sponheim, Co-Investigator**, A.P. Georgopoulos, Principal Investigator. January 2004 to December 2005.
11. Center Grant, Mental Illness and Neuroscience Discovery (MIND) Institute. “The Developing Brain in Schizophrenia”, total direct cost \$600,000 (salary unpaid). **S.R. Sponheim Co-Investigator**, S.C. Schulz, Principal Investigator. January 2003 to December 2003.
12. Individual Investigator Grant, Mental Illness and Neuroscience Discovery (MIND) Institute, “MEG of Visual Attention Deficits in Schizophrenia”, total direct cost \$42,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. January 2002 to December 2002.
13. Center Grant, Mental Illness and Neuroscience Discovery (MIND) Institute, “Diagnostic Assessment Core”, total direct cost \$173,382 (salary unpaid). **S.R. Sponheim, Co-Investigator**, Stephen Olson, Principal Investigator. January 2002 to December 2002.
14. Merit Review Grant, Department of Veterans Affairs, “Cognitive Deficits as Indicators of Genetic Liability in Schizophrenia”, total direct cost \$638,100 (salary unpaid). **S.R. Sponheim, Principal Investigator**. October 1999 to September 2004.
15. Research Advisory Group Grant, Department of Veterans Affairs, "Frontal and Temporal Lobe Functioning in Schizophrenia", total direct cost \$94,600 (salary unpaid). **S.R. Sponheim, Principal Investigator**. October 1995 to October 1997.

#### **Internal Local Grants**

##### *Past*

1. Minnesota Veterans Research Institute (MVRI), “Identification of Genetic Polymorphisms Associated with Pre-Morbid Personality Dimensions Leading to Increased Risk for the Development of Trauma-related Conditions”, total direct cost \$12,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, Paul Arbisi, Principal Investigator. October 2009 to October 2011.
2. Minnesota Veterans Research Institute (MVRI), “Neuropsychological Outcomes in Blast-Related Mild TBI (mTBI) Among Veterans of Operations Enduring Freedom (OEF) and Iraqi Freedom (OIF)”, total direct cost \$20,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, Nathaniel Nelson, Principal Investigator. November 2008 to October 2010.

3. Minnesota Veterans Research Institute (MVRI), “Genetic and Biochemical Associations with Risk and Resilience in Returning Iraq Veterans”, total direct cost \$20,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, P.A. Arbisi, Principal Investigator. June 2007 to June 2008.
4. Minnesota Veterans Research Institute (MVRI), “Genes Associated with Functional and Structural Neural Injury after Brain Injury”, total direct cost \$20,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. December 2006 to December 2007.
5. Minnesota Veterans Research Institute (MVRI), “Components of Memory and Attentional Dysfunction in Traumatic Brain Injury”, total direct cost \$20,000 (salary unpaid). **S.R. Sponheim, Co-Investigator**, K.A. McGuire, Principal Investigator. December 2006 to December 2007.
6. Project Grant, Minnesota Medical Foundation, “Electrophysiological Anomalies in Youth Affected by Schizophrenia”, total direct cost \$15,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. June 2005 to June 2006.
7. Project Grant, Minnesota Medical Foundation, “Prefrontal-Parietal Interactions and Visual Controlled Processing Deficits in Schizophrenia”, total direct cost \$12,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. December 2003 to November 2004.
8. Project Grant, Minnesota Medical Foundation, “Cognition-Related Brain Abnormalities in Relatives of Schizophrenia Patients”, total direct cost \$9,500 (salary unpaid). **S.R. Sponheim, Principal Investigator**. May 1999 to May 2000.
9. Project Grant, Minnesota Medical Foundation, “Verbal and Working Memory Deficits in Schizophrenia”, total direct cost \$5,000 (salary unpaid). **S.R. Sponheim, Principal Investigator**. October 1997 to October 1998.

## Publications

### *Peer-Reviewed Publications*

1. Davenport N.D., Lim K.O., Armstrong M.T., **Sponheim S.R.** (2012). Diffuse and spatially variable white matter disruptions are associated with blast-related mild traumatic brain injury. *Neuroimage*, 59, 2017-24.
2. Kang S.S., **Sponheim S.R.**, Chafee M.V., & MacDonald, A.W. III (2011). Disrupted functional connectivity as a basis for impaired visual controlled processing in schizophrenia. *Neuropsychologia*, 49, 2836-47.  
Times Cited: 1
3. Nelson N.W., Hoelzle J.B., McGuire K.A., Sim A.H., Goldman D.J., Ferrier-Auerbach A.G., Charlesworth M.J., Arbisi P.A., **Sponheim S.R.** (2011). Self-report of psychological function among OEF/OIF personnel who also report combat-related concussion. *The Clinical Neuropsychologist*, 25, 716-740.
4. Karageorgiou, E., Schulz S.C., Gollub R.L., Andreasen, N.C., Ho B.C., Lauriello, J., Calhoun V.D., **Sponheim S.R.**, & Georgopoulos, A.P. (2011). Neuropsychological testing and structural magnetic resonance imaging as diagnostic biomarkers early in the course of schizophrenia and related psychoses. *Neuroinformatics*, 9, 321-33.

5. Nelson N.W., Hoelzle J.B., McGuire K.A., Ferrier-Auerbach A.G., Charlesworth M.J., **Sponheim S.R.** (2011). Neuropsychological evaluation of blast-related concussion: Illustrating the challenges and complexities through OEF/OIF case studies. *Brain Injury*, 25, 511-25.
6. Goghari V.M., MacDonald A.W.<sup>3rd</sup>, **Sponheim S.R.** (2011). Temporal Lobe Structures and Facial Emotion Recognition in Schizophrenia Patients and Non-Psychotic Relatives. *Schizophrenia Bulletin*, 37, 1281-1294.
7. Hamm, J.P., Gilmore, C.S., Picchetti, N.A.M., **Sponheim S.R.**, Clementz B.A. (2011). Abnormalities of neuronal oscillations and temporal integration to low (theta) and high (gamma) frequency auditory stimulation in schizophrenia. *Biological Psychiatry*, 69, 989-96.
8. Aviyente S., Bernat E.M., Evans W.S., **Sponheim S.R.** (2011). A phase synchrony measure for quantifying dynamic functional integration in the brain. *Human Brain Mapping*, 32, 80-93.
9. **Sponheim S.R.**, McGuire K.A., Kang S.S., Davenport N.D., Aviyente S., Bernat E.M., Lim K.O. (2011). Evidence of disrupted functional connectivity in the brain after combat-related blast. *Neuroimage*, 54 Supplement 1, S21-9
10. Kang S.S., Dionisio D.P., **Sponheim S.R.** (2011). Deficient eye movement control and pre-saccadic brain activity in schizophrenia patients and biological relatives of schizophrenia patients. *Psychophysiology*, 48, 350-61
11. Nelson N.W., Hoelzle J.B., McGuire K.A., Ferrier-Auerbach A.G., Charlesworth M.J., **Sponheim S.R.** (2010). Evaluation context impacts neuropsychological performance of OEF/OIF veterans with reported combat-related concussion. *Archives of Clinical Neuropsychology*, 25, 713-23.
12. Abbott C., Kim D.E., **Sponheim S.R.**, Bustillo J., Calhoun V.D. (2010). Decreased default mode neural modulation with age in schizophrenia. *American Journal of Geriatric Psychiatry*, 18, 897-907
13. Ferrier-Auerbach A.G., Erbes C.R., Polusny M.A., Rath M., **Sponheim S.R.** (2010). Predictors of emotional distress reported by soldiers in the combat zone. *Journal of Psychiatric Research*, 44, 470-476.
14. **Sponheim S.R.**, Jung R.E., Seidman L.J., Meshulam-Gately R., Manoach D.S., O'Leary D.S., Ho B.C., Andreasen N.C., Lauriello J., Schulz S.C. (2010). Cognitive deficits in recent-onset and chronic schizophrenia. *Journal of Psychiatric Research*, 44, 421-428.
15. Sui J., Adali T., Pearlson G., Yang H., **Sponheim S.R.**, White T., Calhoun V.D. (2010). CCA+ICA based model for multi-task brain imaging data fusion and its application to schizophrenia. *Neuroimage*, 51, 123-34.
16. Goghari V.M., **Sponheim S.R.**, MacDonald A.W. III (2010). The functional neuroanatomy of symptoms in schizophrenia: Quantitative and qualitative review of a persistent question. *Neuroscience and Biobehavioral Reviews*, 34, 468-486.
17. Jones J.H., **Sponheim S.R.**, MacDonald A.W. III (2010). The dot pattern expectancy task: Reliability and replication of deficits in schizophrenia. *Psychological Assessment*, 22, 131-141.
18. Venables, N.C., Bernat, E.M., & **Sponheim, S.R.** (2009). Genetic and disorder specific aspects of resting state EEG abnormalities in schizophrenia. *Schizophrenia Bulletin*, 35, 826-839.

19. Barch, D.M., Berman, M.G., Engle, R., Jones, J.H., Jonides, J., Macdonald, A.W. III, Nee, D.E., Redick, T.S., & **Sponheim, S.R.** (2009). CNTRICS Final task selection: Working memory. *Schizophrenia Bulletin*, 35, 136–52.
20. Docherty, A.R., & **Sponheim, S.R.** (2008). Anhedonia as a phenotype for genetic liability to schizophrenia: Association with the Val<sup>158</sup>Met polymorphism of the COMT gene. *Journal of Abnormal Psychology*, 117, 788-98.
21. Goghari, V.M., & **Sponheim, S.R.** (2008). Differential association of the COMT gene Val<sup>158</sup>Met polymorphism with clinical phenotypes in schizophrenia and bipolar disorder. *Schizophrenia Research*, 103, 186-91.
22. Force, R.B., Venables, N.C., & **Sponheim, S.R.** (2008). An auditory processing abnormality specific to liability for schizophrenia. *Schizophrenia Research*, 103, 298-310.
23. Tackett, J.L., Silberschmidt, A., Krueger, R.F., & **Sponheim, S.R.** (2008). A dimensional model of personality disorder: Incorporating DSM cluster A characteristics. *Journal of Abnormal Psychology*, 117, 454-9.
24. Vuchetich, J.P., Liska, J., Dionisio, D.P., Stanwyck, J.J., McGuire, K.A., & **Sponheim, S.R.** (2008). Clinical, functional, neuropsychological and brain imaging correlates of nailfold plexus visibility in schizophrenic patients and family members. *Psychiatry Research*, 160, 30-7.
25. Silberschmidt A.L., & **Sponheim S.R.** (2008). Personality in relation to genetic liability for schizophrenia and bipolar disorder: Differential associations with the COMT Val<sup>108/158</sup>Met polymorphism. *Schizophrenia Research*, 100, 316-324.
26. Goghari V.M., & **Sponheim S.R.** (2008). Divergent backward masking performance in schizophrenia and bipolar disorder: Association with COMT. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 147B, 223-227.
27. Georgopoulos, A.P., Karageorgiou, E., Leuthold, A.C., Lewis, S.M., Lynch, J.K., Aslam, Z., Carpenter, A.F., Hemmy, L.F., Koutlas, I.G., Langheim, F.J.P., McCarten, J.R., McPherson S.E., Pardo, J.V., Pardo, P.J., Parry, G.J., Rottunda, S.A., Segal, B.M., **Sponheim, S.R.**, Stanwyck, J.J., Stephane, M., & Westermeyer, J.J. (2007). Synchronous neural interactions assessed by magnetoencephalography: A functional biomarker for brain disorders. *Journal of Neural Engineering*, 4, 349-355.
28. **Sponheim, S.R.**, McGuire, K.A., & Stanwyck, J.J. (2006). Neural anomalies during sustained attention in first-degree biological relatives of schizophrenia patients. *Biological Psychiatry*, 60, 242-52.
29. Laes, J.R., & **Sponheim, S.R.** (2006). Does cognition predict community function only in schizophrenia?: A study of schizophrenia patients, bipolar affective disorder patients, and community control subjects. *Schizophrenia Research*, 84, 121-31.
30. Davenport, N.D., **Sponheim, S.R.**, & Stanwyck, J.J. (2006). Neural anomalies during visual search in schizophrenia patients and unaffected siblings of schizophrenia patients. *Schizophrenia Research*, 82, 15-26.

31. Richter, H.O., Costello, P., **Sponheim S.R.**, Lee, J.T., & Pardo, J.V. (2004). Functional neuroanatomy of the human near/far response to blur cues: Eye-lens accommodation/ vergence to point targets varying in depth. *European Journal of Neuroscience*, 20, 2722-32.
32. **Sponheim, S.R.**, Steele, V.S., & McGuire, K.A. (2004). Verbal memory processing in schizophrenia patients and biological relatives of schizophrenia patients: Intact implicit memory, impaired explicit recollection. *Schizophrenia Research*, 71, 339-348.
33. **Sponheim, S.R.**, Surerus-Johnson, C., Leskela, J., & Dieperink, M.E. (2003). Proverb interpretation in schizophrenia: The significance of symptomatology and cognitive processes. *Schizophrenia Research*, 65: 117-123.
34. **Sponheim, S.R.**, Iacono, W.G., Thuras, P.D., Nugent, S.M., & Beiser, M (2003). Sensitivity and specificity of select biological indices in characterizing psychotic patients and their relatives. *Schizophrenia Research*, 63, 27-38.
35. **Sponheim, S.R.**, Iacono, W.G., Thuras, P.D., & Beiser, M. (2001). Using biological indices to classify schizophrenia and other psychotic disorders. *Schizophrenia Research*, 50, 139-150.
36. **Sponheim, S.R.**, Clementz, B.A., Iacono, W.G., & Beiser, M. (2000). Clinical and biological concomitants of resting state EEG power abnormalities in schizophrenia. *Biological Psychiatry*, 48, 1088-1097.
37. **Sponheim, S.R.**, Iacono, W.G., Clementz, B.A., & Beiser, M. (1997). Season of birth and EEG power abnormalities in schizophrenia. *Biological Psychiatry*, 41, 1020-1027.
38. Lund, T.R., **Sponheim, S.R.**, Iacono, W.G., & Clementz, B.A. (1995). The internal consistency of EEG frequencies in schizophrenic patients and nonpsychiatric controls. *Psychophysiology*, 32, 66-72.
39. Clementz, B.A., **Sponheim, S.R.**, Iacono, W.G., & Beiser, M. (1994). Resting EEG in first-episode schizophrenia patients, bipolar psychosis patients, and their first-degree relatives. *Psychophysiology*, 31, 486-494.
40. **Sponheim, S.R.**, Clementz, B.A., Iacono, W.G., & Beiser, M. (1994). Resting EEG in first-episode and chronic schizophrenia. *Psychophysiology*, 31, 37-43.
41. **Sponheim, S.R.**, Iacono, W.G., & Beiser, M. (1991). Stability of ventricular size after the onset of psychosis in schizophrenia. *Psychiatry Research: Neuroimaging*, 40, 21-29.

*Non-Peer-Reviewed Publications*

1. **Sponheim, S.R.**, Surerus-Johnson, C., Dieperink, M.E., & Spoont, M. (2003). Generalized cognitive dysfunction, symptomatology, and specific cognitive processes in relation to functioning of schizophrenia patients (letter to the editor). *Schizophrenia Research*, 64, 191-193.
2. **Sponheim, S.R.** (2001). VA and schizophrenia: Great potential, many challenges (editorial). *Veterans Health System Journal*, 6:6, 7-9.

*Articles Accepted for Publication*



1. He H., Sui J., Yu O., Turner, J.A., Ho B.C., **Sponheim S.R.**, Manoach D.S., Clark V.P., Calhoun V.D. (in press) Altered Small-World Brain Networks in Schizophrenia Patients during the Working Memory Performance. *PLoS One*.
2. Nelson N.W., Hoelzle J.B., Doane D.M., McGuire K.A., Ferrier-Auerbach A.G., Charlesworth M.J., Lamberty G.J., Polusny M.A., Arbisi P.A., **Sponheim S.R.** (in press) Neuropsychological outcomes of U.S. veterans with report of remote blast concussion and current psychopathology. *Journal of the International Neuropsychological Society*
3. **Sponheim S.R.**, Sass S.M, Noukki A.L., Hegeman B.M. (in press). Fragile Early Visual Percepts Mark Genetic Liability Specific to Schizophrenia. *Schizophrenia Bulletin*.
4. Ehrlich, S., Brauns, S., Yendiki, A., Ho, B.C., Calhoun, V., Schulz, S.C., Gollub, R.L., & **Sponheim, S.R.** (in press). Associations of cortical thickness and cognition in healthy controls and patients with schizophrenia. *Schizophrenia Bulletin*.
5. Walton E., Turner J., Gollub R.L., Manoach D.S., Yendiki A., Ho B.C., **Sponheim S.R.**, Calhoun V.D., Ehrlich S. (in press) Cumulative genetic risk and prefrontal activity in patients with schizophrenia. *Schizophrenia Bulletin*.
6. Potokar D.N., Stein C.H., Darrah, O.A., Taylor B.C., & **Sponheim S.R.** (in press). Knowledge and attitudes about personalized mental health genomics: Narratives from veterans with serious and persistent mental illness. *Community Mental Health Journal*.

#### *Articles Submitted for Publication*

1. Van Meerten N.V., Harris J.I., Nienow T., Hegeman B., Sherburn A., Winkowski A.M., **Sponheim, S.R.** (submitted) Cost effectiveness of psychosocial rehabilitation in a VA medical center.
2. Shaikh A.A., **Sponheim S.R.**, Chafee M.V., MacDonald A.W. 3<sup>rd</sup> (submitted). Spatial Attentional Control Is Not Impaired In Schizophrenia: Dissociating Specific From Generalized Deficits.
3. Goghari V.M, **Sponheim S.R.** (submitted) More Pronounced Deficits in Facial Emotion Recognition for Schizophrenia than Bipolar Disorder.
4. Clark R., DeYoung C.G., **Sponheim S.R.**, Bender T.L., Polusny M.A., Erbes C.R., Paul A. Arbisi P.A. (submitted). Predicting Post-Traumatic Stress Disorder in Operation Iraqi Freedom Veterans: Interaction of Number of Traumatic Events with *COMT* Gene Variation.

#### *Electronic Publication*

1. Camchong, J., Lim, K.O., **Sponheim, S.R.**, & MacDonald, A.W. III (2009). Frontal white matter integrity as an endophenotype for schizophrenia: Diffusion tensor imaging in monozygotic twins and patients' nonpsychotic relatives. *Frontiers in Human Neuroscience*, 3, 35.

#### *Chapters in Books*

1. **Sponheim, S.R.**, Allen, J.J., & Iacono, W.G. (1995). Selected psychophysiological measures in depression: The significance of electrodermal activity, electroencephalographic asymmetries, and contingent negative variation to behavioral and neurobiological aspects of depression. In G. A. Miller

(Ed.), *The Behavioral High-Risk Paradigm in Psychopathology* (pp. 222-249). New York: Springer-Verlag.

## **Presentations**

### *Invited Presentations*

1. "Looking to the Brain for Answers: Clues to What Goes Wrong in Schizophrenia and Blast-Related Traumatic Brain Injury". Invited address at Research Day. Minneapolis VA Medical Center, April, 2012.
2. "Understanding How Combat Explosions Affect the Brain's Structure and Function." Invited Address at Public Forum. Minneapolis VA Medical Center, Sponsored by Minnesota Veterans Medical Research and Education Foundation. April, 2011.
3. "Neuropsychology: The Relevance of Cognitive Dysfunction to Recovery in Schizophrenia and the Basis of the Disorder". Invited Address at the Eleventh Annual Psychiatry Review: Schizophrenia. Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota. September, 2010.
4. "Gee whiz, GWAS! New VA Studies to Understand the Genetic Landscape of Severe Mental Disorders." Mental Health PSL Grand Rounds, Minneapolis VA Medical Center. August, 2010.
5. "Cognition as a Window into the Brain in Schizophrenia: A Clear or Clouded Pane?" Psychiatry Grand Rounds, Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota. January, 2010.
6. "Update: Differentiation of the Effects of Explosive Blast from Post-traumatic Stress on Brain Function and Structure." Mental Health PSL Grand Rounds, Minneapolis VA Medical Center. June, 2009.
7. "How Will the Genome Reshape Mental Health Services for Schizophrenia?" Invited Presentation for Schizophrenia Treatment: Bridging the Science to Clinical Care, University of Minnesota. October 2008.
8. "New Projects in Blast Injury and SPMI Health Services Genomics." Mental Health PSL Grand Rounds, Minneapolis VA Medical Center. May, 2008.
9. "Tracking Effects of the COMT Gene in the Symptoms, Cognition, and Neural Function of Schizophrenia." Invited Address, Center for Cognitive Science, Department of Psychology, University of Minnesota, Twin Cities. May, 2008.
10. "The Effects of Explosive Blast as Compared to Post-Traumatic Stress Disorder on Brain Function and Structure." Invited Address. the 4<sup>th</sup> Annual VISN 23 Mental Health Research Conference. Minneapolis, MN, April 2008.
11. "Genetic Effects on Symptomatology, Cognition, and Neural Function in Schizophrenia". Invited Address. Research Day. Minneapolis VA Medical Center, June, 2007.
12. "A Gene for Schizophrenia?: COMT and Associations with Symptoms, Cognition, and Brain Electrical Activity". Mental Health PSL Grand Rounds. Minneapolis VA Medical Center, April, 2007.
13. "Evidence for Genetic Effects on Brain Abnormalities in Schizophrenia". Mental Health PSL Grand Rounds. Minneapolis VA Medical Center. March, 2006.
14. "Cognition, Brain, and Genes in Schizophrenia". Invited Address at Psychiatry Grand Rounds. Hennepin County Medical Center. March, 2005
15. "Schizophrenia, Genes, and Cognition: New Funding for Research at the Minneapolis VA". Mental Health PSL Grand Rounds. Minneapolis VA Medical Center. October, 2004
16. "Evidence for Electrophysiological Phenotypes in Schizophrenia". Psychiatry Grand Rounds. Department of Psychiatry, University of Minnesota, Twin Cities. June, 2003.
17. "Visual Attention Deficits and Genetic Risk for Schizophrenia". Invited Address at the Center for Cognitive Science. Department of Psychology, University of Minnesota, Twin Cities. November, 2002.

18. "What Cognition Can Tell Us about Schizophrenia". Geriatric Education Research and Clinical Center (GRECC). VA Medical Center, Minneapolis, Minnesota. January, 2002.
19. "A New Priority: Cognitive Processes in Schizophrenia". Invited Address at the Second Annual Psychiatry Review: Schizophrenia. Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota. October, 2001.
20. Workshop. "Cognitive Behavioral Therapy in Schizophrenia: Beginning a Group". Second Annual Psychiatry Review. Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota. October, 2001.
21. "Characterizing Vulnerability for Psychosis: The Role of Cognition and Related Brain States". Psychiatry Grand Rounds. Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota. January, 2000.
22. "The Influence of Cognitive Deficits on Social and Occupational Functioning in Schizophrenia". Psychiatry Grand Rounds. Veterans Affairs Medical Center, Minneapolis, Minnesota. April, 1999.
23. "Cognitive Deficits as Determinants of Social and Occupational Functioning in Schizophrenia". Center of Chronic Disease Outcome Research, Veterans Affairs Medical Center, Minneapolis, Minnesota. January, 1999.
24. "The Minneapolis VA Medical Center Study of Schizophrenia: Results to Date." Psychiatry Grand Rounds. Veterans Affairs Medical Center, Minneapolis, Minnesota. October, 1998.
25. "Use of the Global Assessment of Functioning Scale". Psychiatry Grand Rounds. Veterans Affairs Medical Center, Minneapolis, Minnesota. October, 1997.
26. "Connectionist Models in Neuropsychology". Neuropsychology seminar. Veterans Affairs Medical Center, Minneapolis, Minnesota. August, 1997.
27. "The Electroencephalogram in Studies of Traumatic Brain Injury". Defense and Veterans Head Injury Project Research Seminar. Veterans Affairs Medical Center, Minneapolis, Minnesota. June, 1997.
28. "Psychophysiological Measures and Mental Disorders." Invited Lecture, Faculty Development Seminar. Psychiatry Service, Veterans Affairs Medical Center, Minneapolis, Minnesota. February, 1997.

*Presentations at Professional Meetings*

<sup>A</sup> = Abstract published in journal supplement

1. <sup>A</sup> Goghari, V.M., MacDonald A.W. 3<sup>rd</sup>, **Sponheim, S.R.** (April, 2012). Relationship between Working Memory Performance and Prefrontal Volumes in Schizophrenia: A Family Study. Presented at the Schizophrenia International Research Symposium, Florence, Italy.
2. **Sponheim S.R.**, MacDonald A.W. III, (September, 2011). Looking for RDoC: Congruence of Personality, Cognitive, and Electrophysiological Phenotypes in Severe Psychopathology. Presented at the 25<sup>th</sup> Annual meeting of the Society for Research in Psychopathology, Boston, Massachusetts.
3. <sup>A</sup> **Sponheim, S.R.**, & Kang, S.S. (May, 2011). Disturbed connectivity within the default mode of the brain in schizophrenia: Using EEG rhythms to identify resting state network abnormalities. Presented at the 66<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry, San Francisco, California.
4. <sup>A</sup> **Sponheim, S.R.**, Force, R.B., Kang, S.S., Burton, P.C.; Stanwyck J.J., Chafee M.V., MacDonald A.W., & Olman C.A., (April, 2011). The timing of high-level and low-level influences during object perception in schizophrenia: Use of MEG and fMRI data to examine the basis of perceptual deficits. Presented at the 13<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado.
5. **Sponheim, S.R.**, Kang, S.S., Skorheim, M., Venables, N., Docherty, A., Bender, T., & Shekels, L. (October, 2010). Default mode brain activity as a tool for linking specific genes to dimensions of

severe psychopathology. Presented at the 24<sup>th</sup> Annual meeting of the Society for Research in Psychopathology, Seattle, Washington.

6. <sup>A</sup> Bernat, E.M. (Chair), Malone, S., Aviyente, S., Kang, S.S., & **Sponheim, S.R.** (October, 2009). Symposium. Beyond wavelets: Utilizing uniform time and frequency resolution to improve measurement of brain activity and functional connectivity. Presented at the 49<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Berlin, Germany.
7. <sup>A</sup> **Sponheim, S. R.**, Aviyente, S., Kang, S. S., Stanwyck, J. J., & Bernat, E. M. (March, 2009). Gamma band synchrony as an endophenotype for schizophrenia. Presented at the International Congress on Schizophrenia Research, San Diego, California.
8. **Sponheim, S.R.** (September 2008). SNPing away at DSM classification. Presented at the 22<sup>nd</sup> annual meeting of the Society for Research in Psychopathology, Pittsburgh, Pennsylvania.
9. **Sponheim, S.R.**, Docherty, A.R., Silberschmidt, A.L., Krueger, R.F., & Tackett, J.L. (September, 2009). Positive and negative schizotypy as indicators of vulnerability for schizophrenia and bipolar disorder. Presented at the 23<sup>rd</sup> annual meeting of the Society for Research in Psychopathology, Minneapolis, Minnesota.
10. Camchong, J., Lim, K.O., **Sponheim, S.R.**, & MacDonald, A.W. III (September, 2009). Frontal white matter integrity as an endophenotype for schizophrenia: Diffusion tensor imaging in monozygotic twins and patients' nonpsychotic relatives. Presented at the 23<sup>rd</sup> annual meeting of the Society for Research in Psychopathology, Minneapolis, Minnesota.
11. **Sponheim S.R.**, Bernat, E.M., Kang, S.S., Aviyente, S. (May, 2009). Enhanced measurement of disrupted functional connectivity in the brain after blast injury. Presented at the International State-of-the-Science Meeting on Non-Impact, Blast-Induced Mild Traumatic Brain Injury, Herndon, Virginia.
12. **Sponheim, S.R** (Chair), Aviyente, S., Bernat, E.M., Kang, S.S., & Spencer, K.M. (Discussant) (April, 2009). Symposium. Beyond wavelets: Uniform description of time and frequency in characterizing aberrant functional synchrony in psychopathology. Presented at the 15th annual conference on Event-Related Potentials of the Brain (EPIC XV), Bloomington, Indiana.
13. **Sponheim S.R.**, & Curtis C.E. (October, 2007). The COMT val<sup>108/158</sup>met polymorphism is associated with vulnerability of material in spatial working memory. Presented at the 21<sup>st</sup> annual meeting for the Society for Research in Psychopathology, Iowa City, Iowa.
14. <sup>A</sup> Aviyente, S., Evans, W., Bernat, E.M., & **Sponheim, S.R.** (April, 2007). A time-varying phase coherence measure for quantifying functional integration in the brain. Presented at the International Conference on Acoustics, Speech, and Signal Processing, Honolulu, Hawaii.
15. <sup>A</sup> **Sponheim, S.R.**, & Bernat, E.M. (April, 2005). Early and late gamma band abnormalities in schizophrenia patients and their first-degree biological relatives during visual sustained attention. Presented at the International Congress on Schizophrenia Research, Savannah, Georgia.
16. **Sponheim, S.R.**, Stanwyck, J.J., & McGuire, K.A. (April, 2005). Neural anomalies and verbal memory in schizophrenia patients and their relatives. Presented at the Seventh Biennial Mount Sinai Conference on Cognition in Schizophrenia, Savannah, Georgia.

17. **Sponheim, S.R.**, & McGuire, K.A. (April, 2001). Attention or sustained attention deficit? Event-related potentials over the course of a continuous performance task in schizophrenia. Presented at the Fifth Biennial Mount Sinai Conference on Cognition in Schizophrenia, Whistler, British Columbia.

*Posters Presented at Professional Meetings*

\* = First author is under direct supervision of Dr. Sponheim

<sup>A</sup> = Abstract published in journal supplement

1. Schallmo, M-P., **Sponheim, S.R.**, Olman, C.A. (May, 2012). Orientation Tuning in Schizophrenia Measured Using Reverse Correlation Psychophysics. Presented at the Vision Science Society Meeting, Naples, FL.
2. Blackman R.K., MacDonald III A.W., **Sponheim S.**, Poppe A., Chafee M.V. (November, 2011). Novel continuous performance task demonstrates spatial context processing deficits in schizophrenia. Presented at the Society for Neuroscience Meeting, Washington, DC.
3. Schallmo, M-P., **Sponheim, S.R.**, Marjanska, M., Olman, C.A. (November, 2011). Schizophrenia Affects Contextual Modulation during Contour Detection. Presented at the Society for Neuroscience Meeting, Washington, DC.
4. <sup>A</sup> \*Goldman D.J., **Sponheim S.R.**, Van Meerten N., Skorheim M.K., Cuthbert B.N. (September 2011). Emotion-modulated Startle Reactivity in Combat Veterans with and without PTSD and Blast-Related Mild Traumatic Brain Injury. Presented at the 51st Annual Meeting of the Society for Psychophysiological-Research, Boston, Massachusetts.
5. Schallmo, M-P., **Sponheim, S.R.**, Olman, C.A. (May, 2011). Contextual Modulation of Contour Detection is Altered in Schizophrenia. Presented at the Vision Science Society Meeting, Naples, FL.
6. \*Davenport, N.D., Lim K.O., & **Sponheim S.R.** (June, 2011) Differential effects of explosive blast and post-traumatic stress disorder on cerebral white matter. Presented at the 17th Annual Meeting of the Organization for Human Brain Mapping, Québec City, Canada.
7. \*Fraser N., Davenport, ND, Lim, K.O., **Sponheim S.R.** (June, 2011) Disruptions in resting state network activation in blast-related mTBI. Presented at the 17th Annual Meeting of the Organization for Human Brain Mapping, Québec City, Canada.
8. \*Kang, S.S., MacDonald, A.W., Chafee, M.V., Im, C., & **Sponheim, S.R.** (June, 2011) Disrupted functional small-world network in schizophrenia patients during spatial working memory task performance. Presented at the 17th Annual Meeting of the Organization for Human Brain Mapping, Québec City, Canada.
9. <sup>A</sup> Hoelzle, J. B., Davenport, N. D., Nelson, N. W., McGuire, K. A., & **Sponheim, S. R.** (June, 2011). Evaluating the relationships between cognitive constructs and anatomical brain connectivity in a military sample. Presented at the Annual Conference of the American Academy of Clinical Neuropsychology, Washington, D.C.
10. <sup>A</sup> Nelson, N.W., Hoelzle, J. B., Doane, B. M., McGuire, K. A., Ferrier-Auerbach, A. G., Charlesworth, M. J., Polusny, M. A., Arbisi, P. A., Lamberty, G. J., & **Sponheim, S. R.** (June, 2011). Neuropsychological outcomes of United States veterans with report of remote blast concussion and

concurrent psychological distress. Presented at the annual conference of the American Academy of Clinical Neuropsychology, Washington, D.C.

11. <sup>A</sup> \*Goghari, V.M., & **Sponheim, S.R.** (May, 2011). Differential deficits in facial emotion recognition in schizophrenia and bipolar disorder. Presented at the 66<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry in San Francisco, California.
12. <sup>A</sup> \*Kang, S.S., MacDonald, A.W. III, Chafee, M.V., Davenport, N.D., Im, C., & **Sponheim, S.R.** (April, 2011). Evidence for poor functional connectivity in schizophrenia: Interregional cortical phase-synchrony of gamma activity during object perception in schizophrenia. Presented at the 13<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado.
13. <sup>A</sup> Ehrlich, S., Brauns, S., Ho, B.C., Gollub, R., & **Sponheim, S.R.** (April, 2011). Cortical correlates of cognitive dysfunction in schizophrenia. Presented at the 13<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado.
14. Hoelzle, J., Nelson, N., McGuire, K., Ferrier-Auerbach, A., Charlesworth, M., Doane, B., & **Sponheim, S.R.** (February, 2011). Factor analysis of cognitive and psychological response validity measures in a sample of U.S. veterans. Presented at the 39th Annual Meeting of the International Neuropsychological Society, Boston, Massachusetts.
15. <sup>A</sup> McGuire, K.A., Nelson, N.W., Hoelzle, J.B., Ferrier-Auerbach, A.G., Charlesworth, M.J., Armstrong, M., & **Sponheim, S.R.** (June, 2010). Persistent postconcussive symptoms and PTSD in OEF/OIF military personnel. Presented at the annual meeting of the American Academy of Clinical Neuropsychology (AACN), Chicago, Illinois.
16. <sup>A</sup> Nelson, N.W., Hoelzle, J. B., McGuire, K. A., Ferrier-Auerbach, A. G., Charlesworth, M. J., & **Sponheim, S. R.** (June, 2010). Predictors of neuropsychological dysfunction among veterans of Operation Iraqi Freedom (OIF). Presented at the annual meeting of the American Academy of Clinical Neuropsychology (AACN), Chicago, Illinois.
17. <sup>A</sup> Nelson, N. W., Hoelzle, J. B., McGuire, K. A., Ferrier-Auerbach, A. G., & Charlesworth, M. J., & **Sponheim, S. R.** (June, 2010). The Minnesota blast exposure screening tool (MN-BEST): Introducing a systematic investigatory approach to blast exposure and concussion in veterans of operation Iraqi freedom (OIF). Presented at the annual meeting of the American Academy of Clinical Neuropsychology (AACN), Chicago, Illinois.
18. <sup>A</sup> Nelson, N. W., Hoelzle, J. B., McGuire, K. A., Sim, A. H., Goldman, D., Ferrier-Auerbach, A. G., Charlesworth, M. J., Arbisi, P. A., & **Sponheim, S. R.** (June, 2010). Context matters: Examination of MMPI-2 and MMPI-2-RF validity scales among OEF/OIF veterans evaluated in forensic, clinical, and research settings. Presented at the annual meeting of the American Academy of Clinical Neuropsychology (AACN), Chicago, Illinois.
19. Hoelzle, J. B., Nelson, N. W., McGuire, K. A., **Sponheim, S. R.**, Ferrier-Auerbach, A. G., & Charlesworth, M. J. (February, 2010). Secondary gain context impacts neuropsychological performances among OEF/OIF veterans with histories of blast-related concussion (mTBI). Presented at the annual conference of the International Neuropsychological Society, Acapulco, Mexico.
20. Nelson, N. W., Hoelzle, J. B., McGuire, K. A., **Sponheim, S. R.**, Ferrier-Auerbach, A. G., & Charlesworth, M. J. (February, 2010). Blast-related concussion (mTBI): Preliminary

neuropsychological findings. Presented at the annual conference of the International Neuropsychological Society, Acapulco, Mexico.

21. \*Potokar, D.N., Stein, C.H., Darrah, O.A., Taylor, B.A., & **Sponheim S.R.** (September, 2009). Knowledge and attitudes about mental health genomics: Narratives from veterans with serious and persistent mental illness. Presented at the 12<sup>th</sup> annual meeting of the National Coalition for Health Professional Education in Genetics, Bethesda, Maryland.
22. \*Force, R.B., MacDonald, A.W. III, Chafee, M.V., Olman, C.A., & **Sponheim, S.R.** (September, 2009). Use of the degraded stimulus continuous performance task (DS-CPT) to reveal neural contributions to anomalous object perception in schizophrenia. Presented at the 23<sup>rd</sup> annual meeting of the Society for Research in Psychopathology, Minneapolis, Minnesota.
23. \*Kang, S.S., Dionisio, D., **Sponheim, S.R.** (September, 2009). Abnormal mechanisms of antisaccade generation in schizophrenia patients and unaffected biological relatives of schizophrenia patients. Presented at the 23<sup>rd</sup> annual meeting of the Society for Research in Psychopathology, Minneapolis, Minnesota.
24. \*Goghari, V.M., **Sponheim, S.R.**, MacDonald, A.W. III (September, 2009). The functional neuroanatomy of symptoms in schizophrenia: Qualitative and quantitative review of a persistent question. Presented at the 23<sup>rd</sup> annual meeting of the Society for Research in Psychopathology, Minneapolis, Minnesota.
25. \*Kang, S.S., MacDonald, A.W. III, **Sponheim, S.R.** (August, 2009). Neurophysiological endophenotype studies of psychopathology: Applications to schizophrenia research. Presented at the International Conference of Asian Pacific Psychology (ICAPP), Seoul, South Korea.
26. **Sponheim, S.R.**, Bernat, E.M., Kang, S.S., Aviyente, S. (September, 2009). A new measure for characterizing deficient functional connectivity of the brain after blast injury. Presented at the Military Health Research Forum, Kansas City, Missouri.
27. \*Kang, S.S., MacDonald, A.W. III, Chafee, M.V., Im, C., **Sponheim, S.R.** (June, 2009) Cortical gamma neural synchrony deficits in schizophrenia patients during spatial working memory task performance. Presented at the 15<sup>th</sup> annual meeting of the Organization for Human Brain Mapping, San Francisco, California.
28. Blackman, R., MacDonald, A.W. III, **Sponheim, S.R.**, Jain, S., Te, S., Chafee, M. (April, 2009). Effect of competing stimuli in a spatial categorization task as a means to study the cognitive deficits observed in schizophrenia. Presented at the Association of American Physicians and the American Society for Clinical Investigation joint meeting, Chicago, Illinois.
29. <sup>A</sup> Camchong, J., Lim, K. O., **Sponheim, S. R.**, & MacDonald, A. W. (March, 2009). Diffusion tensor imaging studies of schizophrenia patients, first-degree relatives and healthy Mz twins. Presented at the International Congress on Schizophrenia Research, San Diego, California.
30. <sup>A</sup> \*Docherty, A., Kerns, J., Hall, M., & **Sponheim, S.R.** (March, 2009). Cognitive correlates of anhedonia in first-degree relatives of patients with schizophrenia. Presented at the International Congress on Schizophrenia Research, San Diego, California.

31. <sup>A</sup> \*Goghari, V. M., **Sponheim, S. R.**, & MacDonald, A.W. III, (March, 2009). Structure and function in schizophrenia patients, non-psychotic relatives, and community controls. Presented at the International Congress on Schizophrenia Research, San Diego, California.
32. <sup>A</sup> \*Hall, M. K., Nelson, J. W., Goghari, V. M., MacDonald, A. W., Stanwyck, J. J., & **Sponheim, S. R.** (March, 2009). Neural correlates of inhibitory motor control in schizophrenia patients and their biological relatives. Presented at the International Congress on Schizophrenia Research, San Diego, California.
33. <sup>A</sup> \*Jones, J. A. H., **Sponheim, S. R.**, & MacDonald, A.W. III (March, 2009). Properties of the dot pattern expectancy task for clinical use. Presented at the International Congress on Schizophrenia Research, San Diego, California.
34. <sup>A</sup> \*Kang, S. S., Bernat, E. M., Aviyente, S., Chafee, M. V., Im, C., MacDonald, A.W. III, & **Sponheim, S.R.** (March, 2009). Abnormal neural synchrony of cortical source signals during spatial working memory task in schizophrenia patients. Presented at the International Congress on Schizophrenia Research, San Diego, California
35. <sup>A</sup> Nelson, J. W., Hall, M. K., Goghari, V. M., MacDonald, A.W. III, Stanwyck, J. J., & **Sponheim, S. R.** (March, 2009). Genetic aspects of motor inhibition in patients with schizophrenia and their non-psychotic relatives. Presented at the International Congress on Schizophrenia Research, San Diego, California
36. **Sponheim, S.R.**, Jung, R., Seidman, L., Mesholam-Gately, R., Manoach, D., Ho, B.C., Andreasen, N., Lauriello, J., & Schulz, S. (February 2008). Largely stable cognitive deficits across first-episode and chronic schizophrenia. Presented at the XIVth Biennial *Winter Workshop* on Schizophrenia and Bipolar Disorder, Montreux, Switzerland.
37. <sup>A</sup> \*Kang, S.S., Venables, N.C., Bernat, E.M., Aviyente, S., & **Sponheim, S.R.** (October, 2008). Neural phase synchrony during resting state: In schizophrenia patients and their unaffected biological relatives. Presented at the 48<sup>th</sup> annual meeting for the Society for Psychophysiological Research, Austin, Texas
38. \*Docherty, A.R., **Sponheim, S.R.** (October, 2007). Anhedonia as a phenotype for the COMT val allele in biological relatives of schizophrenia patients. Presented at the 21<sup>st</sup> annual meeting for the Society for Research in Psychopathology, Iowa City, Iowa.
39. \*Goghari, V.M., Silberschmidt, A.L., Docherty, A.R., & **Sponheim, S.R.** (October, 2007). Association of the COMT susceptibility gene with symptomology in schizophrenia and personality pathology in the relatives of patients. Presented at the 21<sup>st</sup> annual meeting for the Society for Research in Psychopathology, Iowa City, Iowa.
40. Jain, S., MacDonald, A.W. III, **Sponheim, S.R.**, & Chafee, M.V. (June, 2007). Spatial cognition supporting object construction activates a frontal-parietal network in humans. Presented at the 13<sup>th</sup> annual meeting for The Organization for Human Brain Mapping, Chicago, Illinois.
41. <sup>A</sup> Seo, D., Bernat, E.M., Stanwyck, J.J., & **Sponheim, S.R.** (May, 2007). Neural correlates of verbal memory recall deficits in schizophrenia patients and their unaffected biological relatives. Presented at the annual meeting of the Cognitive Neuroscience Society, New York, New York.



42. <sup>A</sup> \*Arens, A., & **Sponheim, S.R.** (April, 2007). Frontal lobe functions not associated with the catechol-O-methyltransferase (COMT) gene in schizophrenia. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
43. <sup>A</sup> \*Silberschmidt, A.L., & **Sponheim, S.R.** (April, 2007). Personality characteristics of biological relatives of schizophrenia patients are related to their COMT genotype. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
44. <sup>A</sup> **Sponheim, S.R.**, & Bernat E.M. (April, 2007). Association of susceptibility genes for schizophrenia with gamma frequency anomalies during sustained attention. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
45. <sup>A</sup> \*Kang, S.S., **Sponheim, S.R.**, Im, C.H., Force, R.B., Stanwyck, J.J., MacDonald, A.W. III, & Chafee, M.V. (April, 2007) Aberrant cerebral magnetic fields and hemodynamic signals in schizophrenia during controlled processing in spatial working memory. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
46. <sup>A</sup> \*Hurdelbrink, J.A., **Sponheim, S.R.**, Goghari, V.M., & MacDonald, A.W. III (April, 2007). Electrophysiological components of conflicting habitual responses. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
47. <sup>A</sup> \*Goghari, V.M., & **Sponheim, S.R.** (April, 2007). Associations between the COMT polymorphism and symptom dimensions in schizophrenia. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
48. \*Force, R.F., MacDonald, A.W. III, **Sponheim, S.R.** (October, 2006). An fMRI study of DS-CPT-related brain activity in chronic schizophrenia. Presented at the 20<sup>th</sup> annual meeting for the Society for Research in Psychopathology, San Diego, California.
49. **Sponheim, S.R.**, McGuire, K.A., Stanwyck, J.J., Bender, T., Malone, S.M. (October, 2006). The COMT val allele is associated with diminished neural responses in schizophrenia patients and their relatives during sustained attention. Presented at the 20<sup>th</sup> annual meeting for the Society for Research in Psychopathology, San Diego, California.
50. \*Goghari, V.M., & **Sponheim S.R.** (October, 2006). Specific deficit in visual masking performance to the genetic liability for schizophrenia and relationship to COMT polymorphism. Presented at the 20<sup>th</sup> annual meeting for the Society for Research in Psychopathology, San Diego, California.
51. <sup>A</sup> \*Davenport, N.D., Lim, K.O., & **Sponheim, S.R.** (May, 2006). Differential regional relationships between cognition and DTI measures in schizophrenia. Presented at the 61<sup>st</sup> annual meeting of the Society of Biological Psychiatry, Toronto, Canada.
52. <sup>A</sup> Jain, S., **Sponheim, S.R.**, Bernat, E.M., MacDonald, A.W. III, & Chafee, M.V. (April, 2006). Neural correlates of cueing for objects. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
53. <sup>A</sup> \*Kang, S.S., **Sponheim, S.R.**, & Bernat, E.M. (April, 2006). Abnormal time-frequency components associated with antisaccade eye-movement deficits in schizophrenia and their first degree biological relatives. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.

54. Lim, K.O., Wozniak, J.R., Silverman, A.B., **Sponheim, S.R.**, Davenport, N.D., Wanduragala, D.M., & LaFave, A.E. (February, 2006). Clinical correlates of white matter integrity in chronic schizophrenia. Presented at the Thirteenth Biennial Winter Workshop on Schizophrenia Research, Davos, Switzerland.
55. <sup>A</sup> **Sponheim, S.R.**, Stanwyck, J.J., & Bernat, E.M. (September, 2005). Cue-dependent modulation of neural activity during object identification in schizophrenia patients. Presented at the 45th annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal.
56. <sup>A</sup> \*Stanwyck, J.J., & **Sponheim, S.R.** (September, 2005). Specificity of electrophysiological abnormalities during visual search to schizophrenia: A five group comparison. Presented at the 45th annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal.
57. <sup>A</sup> \*Venables, N.C., Bernat, E.M., & **Sponheim, S.R.** (September, 2005). Resting state EEG abnormalities as indicators of genetic vulnerability in schizophrenia and bipolar disorders: A family study. Presented at the 45th annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal.
58. <sup>A</sup> Lim, K.O., Davenport, N.D., **Sponheim, S.R.**, Silverman, A.B., Wozniak, J.R., Hoptman, M.J., & LaFave, A.E. (May, 2005). White matter and cognition in schizophrenia. Presented at the 60<sup>th</sup> annual meeting of the Society of Biological Psychiatry, Atlanta, Georgia.
59. <sup>A</sup> \*Kang, S.S., **Sponheim, S.R.**, Stanwyck, J.J., & Chafee, M.V. (April, 2005). Aberrant cerebral magnetic fields in schizophrenia during controlled processing in spatial working memory. Presented at the International Congress on Schizophrenia Research 2005, Savanna, Georgia.
60. <sup>A</sup> \*Force, R.B., Venables, N.C., & **Sponheim, S.R.** (April, 2005). Auditory attention event-related potential abnormalities and schizotypal signs in relatives of schizophrenia patients: Do they co-occur in implicating genetic liability for schizophrenia? Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
61. <sup>A</sup> \*Laes, J., **Sponheim, S.R.**, & MacDonald, A.W. III. (April, 2005). Relationships between cognitive functions and current social functioning in schizophrenia and bipolar affective disorder. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
62. <sup>A</sup> Lim, K.O., Wozniak, J.R., Hoptman, M., **Sponheim, S.R.**, Silverman, A., Davenport, N.D., & LaFave, A.E. (April, 2005). White matter and cognition in patients with schizophrenia: A DTI voxel-wise correlation analysis. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
63. <sup>A</sup> Wozniak, J.R., Silverman, A., **Sponheim, S.R.**, Davenport, N.D., LaFave, A.E., & Lim, K.O. (April, 2005). Clinical correlates of white matter integrity in patients with chronic schizophrenia. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
64. <sup>A</sup> Liska, J., Vuchetich, J.P., Dionisio, D.P., Stanwyck, J.J., McGuire, K.A., & **Sponheim, S.R.** (April, 2005). Clinical, functional, neuropsychological and brain imaging correlates of nailfold plexus visibility in schizophrenic patients and family members. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.

65. <sup>A</sup> Vuchetich, J.P., Davenport, N.D., **Sponheim, S.R.**, & Lim, K.O. (April, 2005). Association between white matter microstructure and CSF volume in schizophrenic subjects. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
66. <sup>A</sup> Caligiuri, M., Lohr, J., Dean C., **Sponheim, S.R.**, & Hegeman, B. (April, 2005). Motor abnormalities in family members of patients with schizophrenia. Presented at the International Congress on Schizophrenia Research, Savanna, Georgia.
67. \*Davenport, N.D., Lim, K.O., & **Sponheim, S.R.** (October, 2004). Intrahemispheric EEG coherence related to fractional anisotropy. Presented at the 34<sup>th</sup> annual meeting of the Society for Neuroscience, San Diego, California.
68. **Sponheim, S.R.**, Stanwyck, J.J., & McGuire, K.A. (October, 2004). Electrophysiological correlates of verbal memory dysfunction in biological relatives of schizophrenia patients. Presented at the 19<sup>th</sup> annual meeting for the Society for Research in Psychopathology, St. Louis, Missouri.
69. <sup>A</sup> **Sponheim, S.R.**, Stanwyck, J.J., & McGuire, K.A. (April, 2004). Magnetoencephalography of neural processes associated with sustained attention deficit in schizophrenia. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
70. **Sponheim, S.R.**, Stanwyck, J.J., & McGuire, K.A. (October, 2003). Specificity of electrophysiological abnormalities during a continuous performance task to schizophrenia. Presented at the annual meeting of the Society for Research in Psychopathology, Toronto, Ontario.
71. \*Thompson, R.B., & **Sponheim, S.R.** (October, 2003). Are auditory attention abnormalities specific to genetic risk for schizophrenia?: Evidence from event-related potential data. Presented at the annual meeting of the Society for Research in Psychopathology, Toronto, Ontario.
72. <sup>A</sup> \*Dionisio, D.P., **Sponheim, S.R.**, & McGuire, K.A. (April, 2003). Saccadic performance and associated cortical potentials in schizophrenia patients and their first-degree relatives. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
73. <sup>A</sup> McGuire, K.A., **Sponheim, S.R.**, & Sass, S.M. (April, 2003). Scalp topography of resting EEG frequency abnormalities in schizophrenia patients and relatives of schizophrenia patients. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
74. <sup>A</sup> \*Thompson, R.B., & **Sponheim, S.R.** (April, 2003). Auditory attention in schizophrenia patients and their first-degree relatives: An event-related potential study. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
75. <sup>A</sup> **Sponheim, S.R.**, Bernat, E.M., & McGuire, K.A. (April, 2003). Gamma band activity during a degraded-stimulus continuous performance task in schizophrenia patients and their first-degree biological relatives. Presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado.
76. \*Blahnik, M.M., & **Sponheim, S.R.** (March, 2003). Verbal memory processes in schizophrenia patients and their first-degree biological relatives. Presented at the Sixth Biennial Mount Sinai Conference on Cognition in Schizophrenia, Colorado Springs, Colorado.

77. <sup>A</sup> \*Davenport, N.D., & **Sponheim, S.R.** (May, 2002). Electrophysiological recordings during span of apprehension in schizophrenia patients and their relatives. Presented at the 57th Annual Meeting of the Society of Biological Psychiatry, Philadelphia, Pennsylvania
78. <sup>A</sup> **Sponheim, S.R.**, McGuire, K.A., & Stanwyck, J.J. (April, 2002). Vigilance and vulnerability for psychosis: Event-related potentials in relatives of schizophrenia patients during a continuous performance task. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
79. \*Dionisio, D.P., Calkins, M.E., Curtis, C.E., **Sponheim, S.R.**, & Iacono W.G. (November, 2001). Memory-guided saccade performance in schizophrenia patients and their first-degree biological relatives. Presented at the annual meeting of the Society for Research in Psychopathology, Madison, Wisconsin.
80. <sup>A</sup> **Sponheim, S.R.**, Sass, S.M., & McGuire, K.M. (October, 2001). Encoding ERPs and memory for words in schizophrenia. Presented at the 40<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Montreal, Quebec.
81. <sup>A</sup> \*Sass, S.M., **Sponheim, S.R.**, & McGuire, K.M. (October, 2001). Repetition priming and verbal memory in schizophrenia. Presented at the 40<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Montreal, Quebec.
82. \*Ormont, H.S., & **Sponheim, S.R.** (April, 2001). Attention or sustained attention deficit? Block-by-block analysis of continuous performance task data in schizophrenia. Presented at the Fifth Biennial Mount Sinai Conference on Cognition in Schizophrenia, Whistler, British Columbia.
83. **Sponheim, S.R.**, & McGuire, K.A. (April, 2001). Deficient recall, intact recognition: ERP evidence regarding the nature of verbal memory deficits in schizophrenia. Presented at the Fifth Biennial Mount Sinai Conference on Cognition in Schizophrenia, Whistler, British Columbia.
84. <sup>A</sup> **Sponheim, S.R.**, & McGuire, K.A. (April, 2001). Functional brain abnormalities associated with CPT performance in schizophrenia: New event-related potential evidence. Presented at the International Congress on Schizophrenia Research, Whistler, British Columbia.
85. <sup>A</sup> **Sponheim, S.R.**, Surerus-Johnson, C. (April, 2001). The significance of proverb interpretation in schizophrenia. Presented at the International Congress on Schizophrenia Research, Whistler, British Columbia.
86. **Sponheim, S.R.** (September, 2000). Verbal memory: Changes in functional brain states during the encoding, priming, and recollection of words. Presented at the Neuroplasticity in Schizophrenia Conference, Zinal, Switzerland.
87. <sup>A</sup> **Sponheim, S.R.**, Iacono, W.G., & Thuras, P. (April, 1999). Nosology of psychosis: Using biological indices to refine nosological homogeneity. Presented at the International Congress on Schizophrenia Research, Santa Fe, New Mexico.
88. **Sponheim, S.R.**, & Surerus-Johnson, C. (April, 1999). The relative importance of verbal memory, vigilance, and executive deficits to functioning and symptomatology in schizophrenia. Presented at the Mount Sinai Conference on Cognition in Schizophrenia, Santa Fe, New Mexico.

89. **Sponheim, S.R.** (April, 1999). Parsing the verbal memory deficit in schizophrenia. Presented at the annual meeting of the Cognitive Neuroscience Society, Washington, DC.
90. <sup>A</sup> **Sponheim, S.R.**, & Kodalen, K.M. (September, 1998). Span of apprehension in schizophrenia: An event-related potential study. Presented at the 38<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Denver, Colorado.
91. <sup>A</sup> **Sponheim, S.R.**, & Kodalen, K.M. (October, 1997). Event-related potential amplitudes in schizophrenia patients during the degraded stimulus continuous performance task: Preliminary results. Presented at the 37<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Cape Cod, Massachusetts.
92. <sup>A</sup> **Sponheim, S.R.**, & Kodalen, K.M. (October, 1997). Scalp distribution of EEG frequency abnormalities in schizophrenia: Preliminary results. Presented at the 37<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Cape Cod, Massachusetts.
93. <sup>A</sup> **Sponheim, S.R.**, Nugent, S.M., Iacono, W.G., & Ficken, J.W. (October, 1996). Receiver operating characteristic analysis of psychophysiological indices in schizophrenia. Presented at the 36<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Vancouver, Canada.
94. <sup>A</sup> **Sponheim, S.R.**, Iacono, W.G., & Clementz, B.A. (October, 1995). EEG power abnormalities at the onset of psychosis in relation to the short-term course of schizophrenia. Presented at the 35<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Toronto, Canada.
95. <sup>A</sup> **Sponheim, S.R.**, Clementz, B.A., & Iacono, W.G. (October, 1994). Clinical and biological concomitants of EEG frequency abnormalities in schizophrenic patients and nonschizophrenic psychotic patients. Presented at the 34<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Atlanta, Georgia.
96. **Sponheim, S.R.**, Clementz, B.A., & Iacono, W.G. (October, 1993). Brain morphology correlates of the electroencephalogram in schizophrenia: Preliminary results. Presented at the annual conference of the Society for Research in Psychopathology, Chicago, Illinois.
97. <sup>A</sup> **Sponheim, S.R.**, Clementz, B.A., & Iacono, W.G. (October, 1992). EEG abnormalities in first-episode and chronic schizophrenia. Presented at the 32<sup>nd</sup> annual meeting of the Society for Psychophysiological Research, San Diego, California.
98. <sup>A</sup> Clementz, B.A., **Sponheim, S.R.**, Iacono, W.G., & Beiser, M. (October, 1992). Resting EEG in first-episode psychosis. Presented at the 32<sup>nd</sup> annual meeting of the Society for Psychophysiological Research, San Diego, California.
99. <sup>A</sup> Lund, T.R., Iacono, W.G., **Sponheim, S.R.**, & Clementz, B.A. (October, 1992). Internal consistency reliability of resting EEG power spectra of schizophrenic and normal subjects. Presented at the 32<sup>nd</sup> annual meeting of the Society for Psychophysiological Research, San Diego, California.
100. Clementz, B.A., Iacono, W.G., **Sponheim, S.R.**, & Ficken, J.W. (December, 1991). Multivariate psychophysiological assessment of schizophrenia. Presented at the annual conference of the Society for Research in Psychopathology, Boston, Massachusetts.

101. <sup>A</sup> Clementz, B.A., **Sponheim, S.R.**, & Iacono, W.G. (October, 1991). Resting EEG in chronic schizophrenia. Presented at the 31<sup>st</sup> annual meeting of the Society for Psychophysiological Research, Chicago, Illinois.
102. <sup>A</sup> Lund, T.R., Clementz, B.A., & **Sponheim, S.R.** (October, 1991). A neural network approach to discriminating EEG spectral patterns of schizophrenics and controls. Presented at the 31<sup>st</sup> annual meeting of the Society for Psychophysiological Research, Chicago, Illinois.
103. <sup>A</sup> **Sponheim, S.R.**, & Ficken, J.W. (October, 1991). Reduced P300 amplitudes in boys with a family history of alcoholism. Presented at the 31<sup>st</sup> annual meeting of the Society for Psychophysiological Research, Chicago, Illinois.
104. <sup>A</sup> **Sponheim, S.R.**, & Ficken, J.W. (October, 1990). P300 and N200 amplitudes in boys with and without history of paternal alcohol dependence. Presented at the 30<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Boston, Massachusetts.
105. <sup>A</sup> **Sponheim, S.R.**, & Hughes, S.J. (October, 1989). Correlations between evoked potentials to predictable and unpredictable stimuli and intelligence: preliminary results. Presented at the 29<sup>th</sup> annual meeting of the Society for Psychophysiological Research, New Orleans, Louisiana.

## TEACHING AND CURRICULUM DEVELOPMENT

### University of Minnesota

#### *Courses*

1. Lecturer. Neuropsychopharmacology (PSY8061), Department of Psychology, University of Minnesota, 2010.
2. Lecturer. Neurosciences and Psychiatry (PGY-1 Didactic), Department of Psychiatry, University of Minnesota, 2004-2006.
3. Course Instructor. Graduate and Undergraduate Abnormal Psychology (PSY5604), Department of Psychology, University of Minnesota, 2000.
4. Course Instructor. Graduate Descriptive Psychopathology (PSY8632), Department of Psychology, University of Minnesota, 1999.
5. Lecturer. Medical Students Clinical Rotation, Minneapolis VA Medical Center, 1999 to present.
6. Course Instructor. Directed Research (PSY4993), Department of Psychology, University of Minnesota, 1997 to present

#### *Curriculum Development*

1. Faculty. Clinical Scholars Training Program, University of Minnesota Medical School. 2006 to 2007.
2. Faculty. Stanley Foundation Scholars Program, Department of Psychiatry, University of Minnesota Medical School. January, 2001 to 2003.
3. Faculty. NIMH training grant awarded to the Clinical Science and Psychopathology Research Program, Department of Psychology, University of Minnesota. 1997 to present.
4. Training Staff. Psychology Service Training Program. Minneapolis VA Medical Center, 1995 to present.

## ADVISING AND MENTORING

## Undergraduate Student Activities

### *Undergraduate Directed Research and Lab Supervisees*

University of Minnesota: Holly Weber, Timothy Lano, Eleanor Stahura, Abe Van Voorhis, Nicolaas Van Meerten, Adam Gierok, Amy Silberschmidt, Noah Venables, Hannah Mullen-Schultz, Ann Arens, Nancy Meissner, John Stanwyck, JoAn Laes, Vaughn Steele, Sarah Burt, Jessica Barker, Heather Ormont, Katrina Tarke, Sarah Sass, Danushka Wanduragala, Rachel Burmeister

University of St. Thomas: Katelynn McConnell, Heather Brelje, Alex Lyons

### *Undergraduate Honors Projects*

1. Abraham Van Voorhis (2012). Response Inhibition and Event Related Potentials in Patients with Bipolar Disorder and Schizophrenia. Undergraduate Summa Cum Laude Honors Thesis. Department of Psychology, University of Minnesota.
2. Adam Gierok (2008). COMT Polymorphism, Planning, and Reasoning in Schizophrenia and First-Degree Relatives of Schizophrenia Patients. Undergraduate Magna Cum Laude Honors Thesis. Department of Psychology, University of Minnesota.
3. Hannah Mullen-Schultz (2007). Verbal Memory Performance as it Relates to the COMT Val<sup>108/158</sup>Met Polymorphism in Schizophrenia Patients and Their First-Degree Biological Relatives. Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
4. Ann Arens (2006). Clinical Scholars Program. Frontal Lobe Functions not Associated with the Catechol-O-Methyltransferase (COMT) Gene in Schizophrenia. University of Minnesota Medical School.
5. Nancy Meissner (2005). Smell Identification Ability and Cognitive Associations in Patients with Deficit/Nondeficit Schizophrenia, Bipolar Affective Disorder, and their Relatives. Undergraduate Summa Honors Thesis. Department of Psychology, University of Minnesota.
6. John J. Stanwyck (2004). P3a and P3b in Schizophrenia Patients: A Five Group Comparison of Visual Attention. Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
7. JoAn Laes (2004). Relationships Between Cognitive Functions and Current Social Functioning in Schizophrenia and Bipolar Affective Disorder. Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
8. Vaughn R. Steele (2004). Selective Attention in Patients with Schizophrenia and their First-Degree Biological Relatives: Do Relatives Exhibit a Marker of Genetic Predisposition for Schizophrenia Measured by a Single Trial Stroop Task? Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
9. Sarah Burt (2003-2004). Undergraduate Research Opportunities Program. Department of Psychology, University of Minnesota.
10. Jessica Barker (2003). Undergraduate Research Opportunities Program. Department of Psychology, University of Minnesota.
11. Vaughn Steele (2002). Undergraduate Research Opportunities Program. Department of Psychology, University of Minnesota.
12. Heather S. Ormont (2001). Vigilance in Schizophrenia Subgroups and Associations with Other Attention Measures. Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
13. Katrina M. Tarke (2001). Verbal Memory Deficits and their Influence on Social Function in Schizophrenia. Undergraduate Honors Thesis. Department of Psychology, University of Minnesota.
14. Danushka Wanduragala (Summer 2001). McNair Scholars Program. Department of Psychology, University of Minnesota.

15. Rachel Burmeister (1999). Undergraduate Research Opportunities Program. Department of Psychology, University of Minnesota.

## **Graduate Student Activities**

### *Doctoral Dissertations Directed*

1. Jessica Jones (2011), Behavioral and Electrophysiological Correlates of Context Processing in Individuals with Schizophrenia and Their First-Degree Relatives. Doctorate of Philosophy in Clinical Science and Psychopathology Research. Department of Psychology, University of Minnesota.
2. Rachel Force (2010), An fMRI Investigation of Perceptual Impairments on the DS-CPT in Schizophrenia. Doctorate of Philosophy in Biological Psychopathology. Department of Psychology, University of Minnesota.
3. Daphne Paige Dionisio (2010). Working Memory Subprocesses and Catechol-O-methyltransferase Val158Met Polymorphism in Schizophrenia Patients, Bipolar Disorder Patients, and Their Relatives. Doctorate of Philosophy in Biological Psychopathology. Department of Psychology, University of Minnesota.
4. Seung Suk Kang (2009). Functional Dysintegration Syndrome of Schizophrenia: A Multimodal Neuroimaging Study. Doctorate of Philosophy in Biological Psychopathology. Department of Psychology, University of Minnesota.
5. Nicholas Davenport (2008). Characterizing Sources of Variance in Voxelwise Analyses of White Matter Integrity in Schizophrenia. Doctorate of Philosophy in Biological Psychopathology. Department of Psychology, University of Minnesota.

### *Dissertation Advising and Referee*

1. Vina Goghari (2009). Functional and Structural Brain Markers of the Genetic Vulnerability to Schizophrenia: A Neuroimaging Investigation of Schizophrenia Patients, Non-Psychotic Adult Relatives, and Community Controls. Doctorate of Philosophy in Clinical Science and Psychopathology Research. Department of Psychology, University of Minnesota.
2. Melissa Boyer (2007). Spatial Working Memory as a Cognitive Endophenotype in Schizophrenia: Determining Deficit Specificity. Doctorate of Psychology, Argosy University.
3. Melanie Blahnik (2004). Verbal Memory Processes in Schizophrenia Patients and Their First-Degree Relatives. Doctorate of Psychology, Argosy University.
4. Hegeman, Bridget M.(2002). Functioning in Schizophrenia and Schizoaffective Disorder: Quality of Life, Symptom Presentation, Language Production, and Neurocognitive Abilities. Doctorate of Philosophy in Psychology, Department of Psychology, University of Montana.
5. David Hoffman (2002). The Electroencephalogram and Aural Imagery. Doctorate of Philosophy in Music. Department of Music, University of Minnesota.
6. Shockley, N M. (2002). External Referee for Doctoral Thesis, University of Queensland, Australia. Information Processing and Psychosis.

### *Doctoral Students Advised*

Department of Psychology, University of Minnesota: Peter Lynn (2012 to present), Craig Marquardt (2012 to present), Daniel Goldman (2009 to present), Jessica Jones, Rachel Force, Daphne Dionisio, Seung Suk Kang, Nicholas Davenport.  
Department of Psychology, University of Missouri – Columbia: Anna R. Docherty (2009 to present).

### *Doctoral Committees Served*



Department of Psychology, University of Minnesota: Vaughn Steele, Jessica Jones, Rachel Force, Uma Vaidyanathan, Vina Goghari, Daphne Dionisio, Seung Suk Kang, Nicholas Davenport, Melissa Johnson, Kristin Haut, Monica Calkins, Clayton Curtis, Heather Conklin

## **Professional Student Activities**

### *Clinical Supervision*

Clinical Training of University of Minnesota and Argosy University Psychology Graduate Students during Assessment and Therapy Practica: 1995 to present

Clinical Doctoral Interns: Joel A. Schirvar Psy.D. (1995), Jane A. Coffey Psy.D. (1996), Stacey R. Freiheit Ph.D. (1997), Meg Striepe Ph.D. (1997), Cynthia Port Ph.D. (1997), Jennifer L. Evans Ph.D. (1998), Althea Noukki Ph.D. (1999), Daniel Silversmith Psy.D. (1999), Monica Calkins Ph.D. (2000), Brett Deacon Ph.D. (2002), Pamela Freske Ph.D. (2002), Jessica Baker Ph.D. (2009-2010), Syla Wilson (2011-2012).

Supervision for Licensure: Hildi Hagedorn Ph.D. (2000-01), Althea Noukki Ph.D. (2001-2002), Bridget Hegeman Ph.D. (2002-2003), Danielle Potokar, Ph.D. (2008 to 2009).

## **Post-Doctoral Fellows Supervised**

1. Jessica Jones Ph.D. (2011 to 2012)
2. Snezena Urosevic Ph.D. (2010 to 2011)
3. Seung Suk Kang Ph.D. (2009 to 2012)
4. Nicholas D. Davenport Ph.D. (2008 to 2012)
5. Kathryn A. McGuire Ph.D. (2000 to 2001)

## **SERVICE AND PUBLIC OUTREACH**

### **Journal Reviews**

1. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2007
2. American Journal of Psychiatry, 2001 to 2005, 2010
3. Archives of General Psychiatry, 2003 to 2005, 2011
4. Bipolar Disorders, 2008 to 2009
5. Biological Psychiatry, 2002, 2005 to 2011
6. Biological Psychology, 2001, 2002, 2006 to 2012
7. BMC Medical Genetics, 2009
8. Cerebral Cortex, 2009 to 2010
9. Clinical Schizophrenia & Related Psychoses, 2011
10. European Psychiatry, 2004, 2009
11. Frontier in Human Neuroscience, 2011 to 2012
12. Human Brain Mapping, 2005, 2007, 2009 to 2011
13. International Journal of Psychophysiology, 1998, 2004, 2005, 2007 to 2008
14. Journal of Abnormal Psychology, 1999, 2005 to 2008, 2010
15. Journal of Neuroscience, 2009
16. Journal of Psychiatric Research, 2010

17. Journal of Psychopathology and Behavioral Assessment, 2010
18. Journal of the International Neuropsychological Society, 2004
19. Neuroimage, 2011 to 2012
20. Neuropsychologia, 2006, 2009
21. Neuropsychopharmacology, 2008
22. Neuroscience Letters, 2008, 2010 to 2011
23. Neuroscience & Biobehavioral Reviews, 2012
24. Neuroscience Research, 2000, 2002
25. Pharmacogenomics, 2008, 2010
26. PLoS (Public Library of Science) ONE, 2012
27. Progress in Neuro-Psychopharmacology & Biological Psychiatry, 2009 to 2010
28. Psychiatry Research, 1995, 2005, 2007 to 2008, 2011 to 2012
29. Psychiatry Research – Neuroimaging, 2011 to 2012
30. Psychological Medicine, 2008, 2011 to 2012
31. Psychological Science, 2010 to 2011
32. Psychopathology, 2010
33. Psychophysiology, 1994, 1996, 2001, 2005, 2007, 2009 to 2011
34. Psychosomatic Medicine, 2011
35. Psychological Bulletin, 2007
36. Scandinavian Journal of Psychology, 2012
37. Schizophrenia Bulletin, 2001, 2003, 2006 to 2011
38. Schizophrenia Research, 1998, 2003, 2007, 2009 to 2012

### **Book Reviews**

1. Quarterly Journal of Biology, 2010. "The Genetics of Cognitive Neuroscience," edited by Terry E. Goldberg and Daniel R. Weinberger.

### **Review panels for external funding**

1. Member, Career Development Awards Review Committee, Rehabilitation Research and Development Program, Department of Veterans Affairs, 2012.
2. Reviewer, Research Grant Program, United States – Israel Bi-National Science Foundation, 2012.
3. Member, Special Emphasis Panel, BBBP - Biobehavioral & Behavioral Processes IRG, Center for Scientific Review, National Institutes of Mental Health, 2011.
4. Member, Mental Health and Behavioral Sciences B Grant Review Committee, Clinical Science Research and Development Program, Department of Veterans Affairs, 2010 to present.
5. Member, Scientific Review Panel, Defense Medical Research and Development Program, Department of Defense, 2010.
6. External Referee, Career Development Program, Clinical Science Research and Development Program, Department of Veterans Affairs, 2009 to 2010.
7. External Referee, Trainee Fellowship Program, The Wellcome Trust, United Kingdom, 2009.

8. Expert Referee, Medical Research Council, United Kingdom, 2008.
9. Member, Scientific Review Panel, Congressionally Directed Medical Research Program, Department of Defense, 2008 to 2010, 2012.
10. External Reviewer, Merit Review Program, Clinical Research Service, Department of Veterans Affairs, 2005.
11. External Reviewer, Merit Review Program, Medical Research Service, Department of Veterans Affairs, 1999, 2001.
12. External Reviewer, Research Advisory Group Program, Medical Research Service, Department of Veterans Affairs, 1994.

#### **Committee memberships**

1. Member, Executive Committee, Society for Research in Psychopathology, 2011 to present.
2. Chair, Grants Committee, Minnesota Veterans Medical Research and Education Foundation, 2009-present.
3. Member, Grant Review Committee, Minnesota Veterans Research Institute, 2006-2008.
4. Member, Education and Training Committee, Society for Psychophysiological Research, 1997 to 2000.

#### **Organization of conferences, workshops, panels, symposia**

1. Co-coordinator, Young Investigators Program, International Congress on Schizophrenia Research, San Diego, California. March, 2007, 2009, 2011.
2. Program Committee, Fiftieth Annual Meeting of the Society for Psychophysiological Research, Portland, Oregon. September, 2010.
3. Program Committee, Twenty-First Annual Meeting of the Society for Research in Psychopathology, Iowa City, Iowa. October, 2007.
4. Program Chair, Twentieth Annual Meeting of the Society for Research in Psychopathology, San Diego, California. October, 2006.
5. Mentor, Young Investigators Program, International Congress on Schizophrenia Research, Colorado Springs, 2003.

#### **Service to the University & Medical Center**

1. Member, Selection Committee for Director of Center on Chronic Disease Outcome Research, Veterans Affairs Medical Center, Minneapolis, Minnesota, 2012.
2. Member, Psychology Professional Standards Board (promotion committee). Minneapolis VA Medical Center. February 2009 to February 2011.

3. Member, Chief Psychologist Search Committee, Veterans Affairs Medical Center, Minneapolis, Minnesota, 2006 to 2007.
4. Member, Board of Directors. Minnesota Veterans Medical Research and Education Foundation. Minneapolis VA Medical Center. December 2006 to present.
5. Member, Mental Health Planning and Development Committee, Veterans Affairs Medical Center, Minneapolis, Minnesota, 2004 to 2005.
6. Member, Research and Development Committee, Veterans Affairs Medical Center, Minneapolis, Minnesota, 1996 to 1999, 2003 to 2006.
7. Member, VISN 13 Mental Health Patient Service Line Focus Group on Research and Education, 1999 to 2001.
8. Member, JCAHO Committee on Patient Assessment, Veterans Affairs Medical Center, Minneapolis, Minnesota, 1998.

### **Community Outreach Activities**

1. Member, Advisory Council, People Incorporated (a private nonprofit corporation providing services to the severely mentally ill in the seven-county Twin Cities metropolitan area). 2007 to 2011.
2. Member, Board of Directors, People Incorporated, 1999 to 2007. Director of Program Committee, 2000 to 2005. Secretary, 2001 to 2002. Vice President, 2002 to 2004. President, 2004 to 2006.